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MORRIS MANNING MARTIN LLP
3343 PEACHTREE ROAD, NE
1600 ATLANTA FINANCIAL CENTER
ATLANTA, GA 30326

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FEB 02 2010

In re Application of :
Martinus Jacobus Johannes Hack, et al. :
Application No. 10/577,896 : **ON PETITION**
Filed: May 1, 2006 :
Attorney Docket No. 22264-70761 :

This is a decision on the petition under the unintentional provisions of 37 CFR 1.137(b), filed November 20, 2009, to revive the above-identified application.

The petition is **DISMISSED**.

The application became abandoned for failure to timely pay the issue and publication fees on or before October 23, 2009, as required by the Notice of Allowance and Fee(s) Due, mailed July 23, 2009, which set a statutory period for reply of three (3) months. Accordingly, the application became abandoned on October 24, 2009.

A grantable petition under 37 CFR 1.137(b) must be accompanied by: (1) the required reply, unless previously filed; (2) the petition fee as set forth in 37 CFR 1.17(m); (3) a statement that the entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition pursuant to 37 CFR 1.137(b) was unintentional; and (4) any terminal disclaimer (and fee as set forth in 37 CFR 1.20(d)) required by 37 CFR 1.137(d). Where there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137 was unintentional, the Director may require additional information. See MPEP 711.03(c)(II)(C) and (D). The instant petition lacks item(s) 1.

The application became abandoned for failure to timely pay the issue and publication fee. In an application or patent, abandoned or lapsed for failure to pay the issue fee or any portion thereof, the required reply must be the payment of the issue fee or any outstanding balance thereof.

Any further petition to revive must be submitted within **TWO (2) MONTHS** from the mail date of this decision. Extensions of time under 37 CFR 1.136(a) are permitted. The reconsideration request should include a cover letter entitled "Renewed Petition under 37 CFR 1.137(b)." This is not a final agency action within the meaning of 5 U.S.C. § 704.

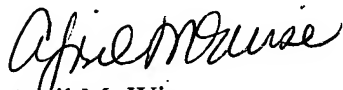
Further correspondence with respect to this matter should be addressed as follows:

By Mail: Mail Stop PETITION
 Commissioner for Patents
 P. O. Box 1450
 Alexandria, VA 22313-1450

By hand: U. S. Patent and Trademark Office
 Customer Service Window, Mail Stop Petitions
 Randolph Building
 401 Dulany Street
 Alexandria, VA 22314

The centralized facsimile number is (571) 273-8300.

Telephone inquiries concerning this decision should be directed to the undersigned at (571) 272-1642



April M. Wise
Petitions Examiner
Office of Petitions

Attachment: Copy of Notice of Allowance previously mailed July 23, 2009



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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NOTICE OF ALLOWANCE AND FEE(S) DUE

44920 7590 07/23/2009

Venable LLP
Raymond J. Ho
575 7th Street NW
Washington, DC 20004-1601

EXAMINER	
WITKOWSKI, ALEXANDER C	
ART UNIT	PAPER NUMBER
2853	
DATE MAILED: 07/23/2009	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,896	05/01/2006	Martinus Jacobus Johannes Hack	92781-253569	5427
TITLE OF INVENTION: INCREASED DROPLET PLACEMENT ACCURACY IN INKJET PRINTING				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,896	05/01/2006	Martinus Jacobus Johannes Hack	92781-253569	5427

TITLE OF INVENTION: INCREASED DROPLET PLACEMENT ACCURACY IN INKJET PRINTING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/23/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
WITKOWSKI, ALEXANDER C	2853	347-047000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
 (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
 2 _____
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE _____ (B) RESIDENCE: (CITY and STATE OR COUNTRY) _____

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,896	05/01/2006	Martinus Jacobus Johannes Hack	92781-253569	5427
44920	7590	07/23/2009	EXAMINER	
Venable LLP Raymond J. Ho 575 7th Street NW Washington, DC 20004-1601			WITKOWSKI, ALEXANDER C	
			ART UNIT	PAPER NUMBER
			2853	
DATE MAILED: 07/23/2009				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 266 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 266 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/577,896	HACK ET AL.	
	Examiner	Art Unit	
	ALEXANDER C. WITKOWSKI	2853	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04/29/2009.
2. ☒ The allowed claim(s) is/are 3,4,7,8,15,16,19 and 20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

/A. C. W./
Examiner, Art Unit 2853

/Stephen D Meier/
Supervisory Patent Examiner, Art Unit 2853

DETAILED ACTION

1. Claims 3, 4, 7, 8, 15, 16, 19, and 20 are now pending in this application. Claims 3, 4, 7, 8, 15, 16, 19, and 20 were objected to for being dependent upon a rejected base claim. Claims 3, 4, 7, 8, 15, 16, 19, and 20 have been rewritten into independent form. Therefore, the objection and rejections concerning claims 3, 4, 7, 8, 15, 16, 19, and 20 have been reconsidered and withdrawn.

2. Claims 1, 2, 5, 6, 9 - 14, 17, 18, 21, and 22 have been cancelled.

Allowable Subject Matter

3. Claims 3, 4, 7, 8, 15, 16, 19, and 20 have been allowed. The following is a statement of reasons for the indication of allowable subject matter:

For claim 3, none of the prior art of record teaches an inkjet print head comprising: at least one nozzle chamber, having a nozzle aperture defined in one wall thereof for the ejection of printing fluid out of said aperture, a printing fluid supply channel interconnected with said nozzle chamber; and a printing fluid droplet tail release guide arrangement having disposed on a predetermined position of an edge of a circumference of said aperture, wherein said printing fluid droplet tail release guide arrangement comprises a bar of essentially triangular cross-section a base of which rests on an inner surface of said nozzle chamber and a pointed edge of which protrudes towards the center of said aperture said bar further extending along said inner surface inwards of said nozzle chamber.

For claim 4, none of the prior art of record teaches an inkjet print head comprising: at least one nozzle chamber, having a nozzle aperture defined in one wall thereof for the ejection of printing fluid out of said aperture, a printing fluid supply channel interconnected with said nozzle chamber; and a printing fluid droplet tail release guide arrangement having disposed on a predetermined position of an edge of a circumference of said aperture, wherein said printing fluid droplet tail release guide arrangement comprises a pointed structure of essentially pyramidal shape a base of which rests on an inner surface wall of said nozzle chamber and a pointed tip of which protrudes towards the center of said aperture.

For claim 7, none of the prior art of record teaches an inkjet print head comprising: at least one nozzle chamber, having a nozzle aperture defined in one wall thereof for the ejection of priming fluid out of said aperture, a printing fluid supply channel interconnected with said nozzle chamber; and a printing fluid droplet tail release guide arrangement having disposed on a predetermined position of an edge of a circumference of said aperture, wherein said printing fluid droplet tail release guide arrangement comprises a recessed section of essentially triangular shape in an inner surface wall of said nozzle chamber a base of which rests in the plane of said aperture and a point of which is directed inwards of said nozzle chamber.

For claim 8, none of the prior art of record teaches an inkjet print head comprising: at least one nozzle chamber, having a nozzle aperture defined in one wall thereof for the ejection of printing fluid out of said aperture, a printing fluid supply channel interconnected with said nozzle chamber; and a printing fluid droplet tail release guide arrangement having disposed on a predetermined position of an edge of a circumference of said aperture, wherein said printing fluid droplet tail release guide arrangement comprises a recessed section of essentially triangular pyramidal shape in an inner surface wall of said nozzle chamber a base of which rests in the plane of said aperture and a point of which is directed inwards of said nozzle chamber.

For claim 15, none of the prior art of record teaches a method for increasing droplet placement accuracy in an inkjet print head having at least one nozzle chamber with a nozzle aperture defined in one wall thereof for the ejection of printing fluid out of said aperture, comprising providing a printing fluid droplet tail release guide arrangement disposed on a predetermined position of an edge of a circumference of said aperture, wherein said printing fluid droplet tail release guide arrangement is a bar of essentially triangular cross-section such that a base thereof will rest on an inner surface of said nozzle chamber and such that a pointed edge thereof protrudes towards the center of said aperture and directing said bar such that it extends along said inner surface inwards of said nozzle chamber.

For claim 16, none of the prior art of record teaches a method for increasing droplet placement accuracy in an inkjet print head having at least one nozzle chamber with a nozzle aperture defined in one wall thereof for the ejection of printing fluid out of said aperture, comprising providing a printing fluid droplet tail release guide arrangement disposed on a predetermined position of an edge of a circumference of said aperture, wherein said printing fluid droplet tail release guide arrangement is a pointed structure of essentially pyramidal shape such that a base thereof rests on an inner surface wall of said nozzle chamber and such that a pointed tip thereof protrudes towards the center of said aperture.

For claim 19, none of the prior art of record teaches a method for increasing droplet placement accuracy in an inkjet print head having at least one nozzle chamber with a nozzle aperture defined in one wall thereof for the ejection of printing fluid out of said aperture, comprising providing a printing fluid droplet tail release guide arrangement disposed on a predetermined position of an edge of a circumference of said aperture, wherein said printing fluid droplet tail release guide arrangement is a recessed section of essentially triangular shape in an inner surface wall of said nozzle chamber such that a base thereof rests in the plane of said aperture and a point thereof is directed inwards of said nozzle chamber.

For claim 20, none of the prior art of record teaches a method for increasing droplet placement accuracy in an inkjet print head having at least one nozzle chamber

with a nozzle aperture defined in one wall thereof for the ejection of printing fluid out of said aperture, comprising providing a printing fluid droplet tail release guide arrangement disposed on a predetermined position of an edge of a circumference of said aperture, wherein said printing fluid droplet tail release guide arrangement is a recessed section of essentially triangular pyramidal shape in an inner surface wall of said nozzle chamber such that a base thereof rests in the plane of said aperture and a point thereof is directed inwards of said nozzle chamber.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEXANDER C. WITKOWSKI whose telephone number is (571) 270-3795. The examiner can normally be reached on Monday to Friday 8:00 AM to 6:30 PM EST, except alternate Thursdays and Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. C. W./
Examiner, Art Unit 2853

/Stephen D Meier/
Supervisory Patent Examiner, Art Unit 2853